POWELL COUNTY REPORT OF ENDANGERED, THREATENED, AND SPECIAL CONCERN PLANTS, ANIMALS, AND NATURAL COMMUNITIES OF KENTUCKY

PRESERVES COMMISSION 801 SCHENKEL LANE FRANKFORT, KY 40601 (502) 573-2886 (phone) (502) 573-2355 (fax)

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Kentucky State Nature Preserves Commission Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

STATUS

KSNPC: Kentucky State Nature Preserves Commission status:

USESA: U.S. Fish and Wildlife Service status:

SOMC = Species of Management Concern

RANKS

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled GU = Unrankable

G2 = Imperiled G#? = Inexact rank (e.g. G2?)
G3 = Vulnerable G#Q = Questionable taxonomy

G4 = Apparently secure G#T# = Infraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G'

G5 = Secure portion of the rank then refers to the entire species)

GH = Historic, possibly extinct GNR = Unranked GX = Presumed extinct GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled SU = Unrankable Migratory species may have separate ranks for different

S2 = Imperiled S#? = Inexact rank (e.g. G2?) population segments (e.g. S1B, S2N, S4M):

S3 = Vulnerable S#Q = Questionable taxonomy S#B = Rank of breeding population
S4 = Apparently secure S#T# = Infraspecific taxa S#N = Rank of non-breeding population
S5 = Secure SNR = Unranked S#M = Rank of transient population

SH = Historic, possibly extirpated SNA = Not applicable

SX = Presumed extirpated

COUNT DATA FIELDS

OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

- E currently reported from the county
- H reported from the county but not seen for at least 20 years
- F reported from county & cannot be relocated but for which further inventory is needed
- X known to be extirpated from the county
- U reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

Kentucky State Nature Preserves Commission 801 Schenkel Lane Frankfort, KY 40601 phone: (502) 573-2886 fax: (502) 573-2355

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County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks		# of	Оссі	ırren	ces
	Habitat					E	Н	F	Χ	U
Powell	Vascular Plants Cool, moist, mesic woods. often as	Acer spicatum ssociated with cool air drainages from caves, or at high	Mountain Maple elevations; periglacial boulderfields (Weakley 1998).	E/	G5 / S1S2	0	0	0	1	0
Powell	Vascular Plants Sphagnous bogs, fens, savannas	Calopogon tuberosus and wet shores; in KY, dry sandy pine (-oak) woods an	Grass Pink d swamps	E/	G5 / S1	0	1	0	1	0
Powell	Vascular Plants Bogs, mossy swamps and woods,	Cypripedium parviflorum wet shores; in KY, rich mesic forested slopes.	Small Yellow Lady's-slipper	Τ/	G5 / S2	3	0	0	1	0
Powell	Vascular Plants Openings in seasonally moist fore	Lilium philadelphicum sts, prairies and roadsides.	Wood Lily	T /	G5 / S2S3	0	0	1	0	0
Powell	Vascular Plants Bogs, peaty meadows, and damp	Liparis loeselii or seeping thickets or mesic slopes; Has been found or	Loesel's Twayblade n abandoned strip mines (R. Thompson).	T/	G5 / S2S3	2	0	0	0	0
Powell	Vascular Plants Sandstone ridgetops, chiefly pine	Monotropsis odorata woods but also mesophytic woods.	Sweet Pinesap	T/ SOMC	G3 / S2	3	1	1	1	0
Powell	Vascular Plants MUDDY, PEATY, OR SANDY PO	Najas gracillima NDS, POOLS, OR SHORES.	Thread-like Naiad	S/	G5? / S2S3	1	0	0	0	0
Powell	Vascular Plants Calcareous rocks and slopes (gen	Paxistima canbyi erally near the top of cliffs or bluffs), rocky woods in the	Canby's Mountain-lover mountains, usually above major streams.	T/ SOMC	G2 / S2	1	0	0	0	0
Powell	Vascular Plants Wet meadows, damp thickets, allu	Platanthera psycodes ivial or springy shores, low woods, wet roadsides.	Small Purple-fringed Orchid	E/	G5 / S1	0	0	1	0	0
Powell	Vascular Plants Dry or rocky woods; also, northern	Poa saltuensis hardwood forests, barrens and glades (Weakley 1998	Drooping Bluegrass	E/	G5 / S1S2	0	1	0	0	0
Powell	Vascular Plants	Polygala cruciata and sands on or near the coastal plain; in KY, swamps,	Crossleaf Milkwort	E/	G5 / S1	1	1	0	0	0
		Prosartes maculata Cronquist 1991). In KY, rare and local in rich mesophytherate base-status and fertility, and E = Typical of extre				2 o E (0	0	0	0
Powell	Vascular Plants SWAMPS, BOGS, AND OPEN WI	Rhynchospora recognita ET SOIL.	Globe Beaked-rush	S/	G5? / S3	0	1	0	0	0
Powell	Vascular Plants Salt or brackish marshes, deep sa	Sabatia campanulata nds and peat. also pinelands, swamps, and meadows.	Slender Marsh Pink	E/	G5 / S1	1	1	0	0	0
Powell	Vascular Plants Dry - mesic forest, mountain sumn	Silene ovata nits. In IL found in calcareous sandstone woods, exposi	Ovate Catchfly ures on the side of slopes below a cap of sandstone.	E/ SOMC	G3 / S1	1	0	0	0	0
Powell	Vascular Plants Sandstone rockhouses and ledges	Solidago albopilosa s along clifflines.	White-haired Goldenrod	T/LT	G2 / S2	22	0	0	2	0
Powell	Vascular Plants Bottomland hardwood forests and	Spiranthes lucida other wet forests as well as wet grassy openings.	Shining Ladies'-tresses	T/	G5 / S2S3	0	0	1	0	0
Powell	Vascular Plants	Viburnum rafinesquianum var. rafinesquianum	Downy Arrowwood	Т/	G5T4T5 / S2	1	0	0	0	0
	Dry, esp. calcareous woods.	•								

Data Current as of February 2006

County	/ Taxonomic Group	Scientific name	Common name	Statuses	Ranks		# of	Оссі	ırren	ices
	Habitat					Е	Н	F	X	U
	Occurs in large to medium size str 1914). Sometimes found in lakes of several inches to two feet. Buchan	Alasmidonta marginata reams but more typical of smaller streams (Buchanan 198 connected to rivers. Parmalee (1967) reported the preferr tan (1980) found this species to be common in gravel and Cumberland River than in small streams.	red habitat to be small streams with good curre	ent sand or gravel bo	ttoms, and depth of	1 e	0	0	0	0
Powell	Freshwater Mussels MEDIUM TO LARGE STREAMS A	Cyprogenia stegaria AND RIVERS WITH MODERATE TO STRONG CURREN ALIE 1944, NEEL AND ALLEN 1964, PARMALEE 1967,			G1 / S1 OM SHALLOW TO DEE	0 P(1	0	0	0
Powell	Occurs in medium-sized streams t	Epioblasma triquetra o large rivers generally on mud, rocky, gravel, or sand subly buried in substrate and overlooked by collectors.	Snuffbox ubstrates in flowing water (Baker 1928, Buchar	E / SOMC nan 1980, Johnson 1	G3 / S1 978, Murrary and Leona	5 ird	0	0	0	0
Powell	OFTEN FOUND BURIED IN SUBS	Simpsonaias ambigua STRATE SUCH AS SOFT MUD AND/OR GRAVEL, AND ER 1928, BUCHANAN 1980, GOODRICH AND VAN DE		T / SOMC VATER IN SMALL ST	G3 / S2S3 FREAMS WHERE THE	2	0	0	0	0
Powell		Villosa lienosa SIZED RIVERS, USUALLY IN SHALLOW WATER ON A	Little Spectaclecase SAND/MUD/DETRITUS BOTTOM (PARMALE	S / EE 1967, GORDON A	•	0	0	1	1	0
Powell	Appears to be dependent on clima	Dryobius sexnotatus ax hardwood forest habitat, where it principally lives on su e typically found (Mike Bratton, pers comm).	Sixbanded Longhorn Beetle igar maple and, to a lesser extent, beech and	T / SOMC elm (Perry et al. 197	GNR / S1 4, Schweitzer 1989). Mid	I				
Powell	In Kentucky, it is only known along Corbin Member, and at elevations	Manophylax butleri g the Pottsville Escarpment of the Cumberland Plateau fro ranging from 244-366 m. In general the walls are moist to neequently relative humidity around the wall is usually great	to the touch year round and are usually comple			4 nse	0	0	0	0
Powell		<i>Ophiogomphus mainensis</i> OCKY STREAMS AND RIVERS IN FOREST, OFTEN W	Maine Snaketail HERE THEY DRAIN LAKES OR SWAMPS (I	E / DUNKLE 2000).	G4 / S1	0	1	0	0	0
Powell	SMALL TO MEDIUM-SIZE UPLAN	Ichthyomyzon fossor ND STREAMS WHERE ADULTS LIVE IN SAND-GRAVE IS REQUIRE MIXED SAND, SILT, AND DEBRIS IN QUIE		T / EWAYS (BURR ANI	G4 / S2 D WARREN 1986, PAGE	8	0	0	0	0
Powell	Fishes	Lampetra appendix rgins of permanently flowing streams and rivers with grav	American Brook Lamprey	T / ren 1986). Ammocoe	G4 / S2 etes live in sand and	5	0	0	0	0
Powell	•	Cryptobranchus alleganiensis alleganiensis RS OF FAIRLY LARGE STREAMS AND RIVERS.	Eastern Hellbender	S/SOMC	G3G4T3T4 / S3	1	0	0	0	0
	The species is found in virtually all they do not occur in bottomlands s	Elaphe guttata guttata I upland situations including prairie, fields, woods, and are since these are not included in any references. In KY, the The species often burrows under cover and can be found	species has been found everywhere from wo		fields, preferring woodla		2	0	0	1
	The habitat generally consists of h clearcuts, highway and powerline	Eumeces anthracinus numid wooded areas with abundant leaf litter and loose ro rights-of-way (Hulse et al. 2001), rocky bluffs above cree under logs and rocks near water. Sometimes they take re	k valleys, dry, rocky, south-facing hillsides (Jo	hnson 2000), and dr	y shale barrens (West	0	1	0	0	0
Powell	Reptiles OPEN WOODLANDS, EDGES.	Eumeces inexpectatus	Southeastern Five-lined Skink	S/	G5 / S3	0	0	0	0	1

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County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky Kentucky State Nature Preserves Commission

County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks		# of	Осс	urren	ces
Ha	abitat					Е	Н	F	X	U
Powell Gr	Breeding Birds asslands and savanna, especia	Cistothorus platensis lly where wet or boggy, sedge marshes, locally in dry cu	Sedge Wren Itivated grainfields. In migration and winter al	S / so in brushy grassland	G5 / S3B s. (B83COM01NA)	1	0	0	0	0
	Mammals afinesque's big-eared bats use a ildings, etc. Apparently less freq	Corynorhinus rafinesquii variety of sites for roosting including caves, protected signently use tree cavities.	Rafinesque's Big-eared Bat ites along clifflines, old mine portals, abandor	S / SOMC ned tunnels, cisterns, c	G3G4 / S3 old or seldom used	13	1	0	0	0
		Corynorhinus townsendii virginianus IS A CAVE-DWELLING SPECIES THAT HAS BEEN SE OTECTED SITES ALONG CLIFFLINES, ESPECIALLY I			G4T2 / S1 WILL USE SMALL	9	0	0	0	0
	•	Myotis leibii s. They occur in caves, mines, protected sites along cliff bitat is currently unknown, but may be similar sites.	Eastern Small-footed Myotis lines, abandoned buildings, and are occasion	T / SOMC nally found roosting un	G3 / S2 der rocks on the groun	1 nd or	0	0	0	0
Powell Inc	Mammals diana bats use primarily caves for	Myotis sodalis or hibernacula, although they are occasionally found in o	Indiana Bat ld mine portals.	E/LE	G2 / S1S2	3	0	0	0	0
Powell W	Mammals OODED AREAS, ESPECIALLY	Spilogale putorius ALONG CLIFFLINES. WILL USE ABANDONED BUILD	Eastern Spotted Skunk INGS.	S/	G5 / S2S3	4	0	0	0	0
Powell LA	Mammals RGELY FORESTED AREAS.	Ursus americanus	American Black Bear	S/	G5 / S2	1	0	0	0	0
Powell	Communities	Appalachian mesophytic forest		1	GNR / S5	1	0	0	0	0

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